AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Currently amended) A manufacturing method of a silicon wafer, including:

an etching process (14) storing acid etching solution and alkali etching solution in plural etching tanks, respectively, and immersing a silicon wafer gone through a lapping process and having degraded superficial layers in the acid etching solution and the alkali etching solution in order so as to remove the degraded superficial layers;

a double surface polishing process (16) to simultaneously polish the front and rear surfaces of said wafer after said etching process;

wherein the acid etching solution includes hydrofluoric acid, nitric acid, acetic acid, and water, respectively,

wherein, when the resistivity of the silicon wafer is below 1 Ω · cm, the mixing ratio of hydrofluoric acid, nitric acid, acetic acid, and water is hydrofluoric acid: nitric acid: acetic acid: and water = 1:1 to 5:3 to 8:3 to 7 by percent by weight,

wherein, when the resistivity of the silicon wafer is above $1 \Omega \cdot \text{cm}$, the mixing ratio of hydrofluoric acid, nitric acid, acetic acid, and water is hydrofluoric acid: nitric acid: and water = 1:5 to 9:1 to 6:1 to 5 by percent by weight,

wherein a total removal depth in the acid etching is 5 to 7 μm,

wherein sodium hydroxide aqueous solution of 40 to 60 percent by weight is used in the alkali etching solution of said etching process (14), and wherein a total removal depth in the alkali etching is 13 to 15 μm,

wherein_in said double surface simultaneous polishing process (16), a flow rate of abrasive supplied to the wafer is made 1 to 20 L/min, a loading capacity of an upper lapping plate is made 50 to 500 g/cm2, and a ratio of a lower lapping plate number of rotations to the upper lapping plate number of rotations is taken as the upper lapping plate: the lower lapping plate = 1:2 to 20, thereby making a polishing removal depth A in said wafer front surface is made 5 to 10 μ m, and

[[a]] making a polishing removal depth B in said rear surface is made 2 to 6 μm, and making a difference (A-B) between said polishing removal depth A and said polishing removal depth B is made 3 to 4 μm.

- (Original) The manufacturing method according to claim 1, wherein the etching process is performed by the alkali etching after the acid etching.
- (Original) The manufacturing method according to claim 1, wherein the number of
 acid etching tanks is made 1 to 3, and the number of alkali etching tanks is made 1 to 3.

Claims (4-6) Cancelled.